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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-KS-PMC-2014-15 Date: 07.04.2014

TEST REPORT

CLIENT	:	**Executive Engineer,** Rajarajeswari Nagara Division, BBMP, Bangalore.
AGENCY	:	**Sri. K.ShivaKumar,** Contractor**,** BBMP, Bangalore.
NAME OF THE WORK	:	Providing and Laying HDPE Water line in Mohan Kumar Nagara Block-1 in J P Park, Ward No 17.
REFERENCE	:	EE/RRND/Wo. NO/231/2013-14 Date: 07.02.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	180Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	360Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15 days from the date of testing.

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Authorised Signatory

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b No.: CECTC-KS-PMC-2014-15 Date : 07.04.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

ient : **Executive Engineer,** Rajarajeswari Nagara Division, BBMP, Bangalore.

gency : **Sri. K.ShivaKumar,** Contractor, BBMP, Bangalore.

ame of Work : Providing and Laying HDPE Water line in Mohan Kumar Nagara Block-1 in J P Park, Ward No 17.

ference : EE/RRND/Wo. NO/231/2013-14 Date: 07.02.2014

te of Testing : 07.04.2014

terial : Sand Total Wt. of Aggregates **1500**

Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	68	4.53	4.53	95.5	90-100
2.36	122	8.13	12.67	87.3	75-100
1.18	158	10.53	23.20	76.8	55-90
600 Micron	368	24.53	47.73	52.3	35-59
300 Micron	400	26.67	74.40	25.6	8-30
150 Micron	300	20.00	94.40	5.6	0-10

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Lab No.: CECTC-KS-PMC-2014-15 Date : 07.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeswari Nagara Division, BBMP, Bangalore.

Agency : **Sri. K.ShivaKumar,** Contractor**,** BBMP, Bangalore.

Name of Work : Providing and Laying HDPE Water line in Mohan Kumar Nagara Block-1 in J P Park, Ward No 17.

Reference : EE/RRND/Wo. NO/231/2013-14 Date: 07.02.2014

Date of Testing : 07.04.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	170	1.13	1.13	98.87	95-100
20	8835	58.90	60.03	39.97	30-70
10	3698	24.65	84.69	15.31	10-35
4.75	1784	11.89	96.58	3.42	0-5

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Job No: CECTC-KS-PMC-2014-15 Date : 07.04.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Rajarajeswari Nagara Division, BBMP, Bangalore.

Agency : **Sri. K.ShivaKumar,** Contractor**,** BBMP, Bangalore.

Name of Work : Providing and Laying HDPE Water line in Mohan Kumar Nagara Block-1 in J P Park, Ward No 17.

Reference : EE/RRND/Wo. NO/231/2013-14 Date: 07.02.2014

Date of Testing : 07.04.2014

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

s Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	172	3.4	3.4	96.6	95-100
10	2845	56.9	60.3	39.7	25-55
4.75	1798	36.0	96.3	3.7	0-10

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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-KS-PMC-2014-15

Date: 06.05.2014

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Rajarajeswari Nagara Division, BBMP, Bangalore.

Agency : **Sri.K.ShivaKumar,** Contractor, BBMP, Bangalore.

Name of the work : Providing and Laying HDPE Water line in Mohan Kumar Nagara Block-1 in J P Park, Ward No 17.

Reference : EE/RRND/Wo. NO/231/2013-14 Date: 07.02.2014

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2014	06.05.2014	8.178	515.7	22.92
2	08.04.2014	06.05.2014	8.198	522.5	23.22
3	08.04.2014	06.05.2014	8.202	523.7	23.27

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